Title of Instructional Materials: Holt-McDougal Course 3

Grade Level: Grade 8

Summary of Holt-McDougal Course 3

Overall Rating:	 Weak (1-2) Moderate (2-3) Strong (3-4)	Important Mathematical Ideas:	 Weak (1-2) Moderate (2-3) Strong (3-4)
Summary / Justification / Evider Holt Course 3 is a traditional textbe and some real-world applications. standards are taught; however, the at a deeper level. The higher order thinking are not well-developed. A do not apply to the Common Cores available. A teacher would have to between materials. Many of the re interesting for students.	The majority of the Common Core y don't enable students to learn in thinking skills and abstract lot of the lessons in the textbook and a supplemental toolkit is get used to going back and forth	Summary / Justification / Evide	nce:
Skills and Procedures:	 Weak (1-2) Moderate (2-3) Strong (3-4)	Mathematical Relationships:	☐ Weak (1-2) ☑ Moderate (2-3) ☐ Strong (3-4)
Summary / Justification / Evider	ice:	Summary / Justification / Evide	nce:

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,	MATHEMATICAL PRACTICES	Chapter/Section/Page				Summary/ Justificati on/Eviden ce	Missing pieces	Overall Rating
	1. Make sense of problems and persevere in solving them.	CD ROM Provided with m	ultiple example	S				4
	2. Reason abstractly and quantitatively.	CD ROM Provided with m	nultiple example	S				4
	3. Construct viable arguments and critique the reasoning of others.	CD ROM Provided with m	nultiple example	S				4
	4. Model with mathematics.	CD ROM Provided with m	nultiple example	S				4
	5. Use appropriate tools strategically.	CD ROM Provided with m						4
	6. Attend to precision.	CD ROM Provided with m	ultiple example	S				4
	7. Look for and make use of structure.	CD ROM Provided with m	ultiple example	S				4
	8. Look for and express regularity in repeated reasoning.	CD ROM Provided with m	ultiple example	S				4
		Chapter/Section/ Page	Important Math Ideas	Skills and Procedur	100000000000000000000000000000000000000	Summary/ Justificati on/Eviden ce	Missing portions of Standards	Overall Rating
	Know that there are numbers that are not rational, and approximate them by rational numbers.		Q.	1	wa	12 M		
8.NS.1	Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeates eventually, and convert a decimal expansion which repeats eventually into a		rate	Sup	De la companya dela companya dela companya dela companya de la companya de la companya de la companya dela companya de la companya de la companya de la companya dela compan	Sa	to	2
8.NS.2	Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions		Hall		de (1)	Di J	et live	Jed
8.EE	EXPRESSIONS AND EQUATIONS	300	M. W	2000	/	1	W. n.v	P
	Work with radicals and integer exponents.	WA	N MOU	The state of the s	100	TIM	W	
8.EE.1	Know and apply the properties of integer exponents to generate equivalent numberical expressions.	1	1	N	M	MA		
		/		V	/ /	14/	11 -1	1 //

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Instructional Materials Analysis and Selection

Phase 3: Assessing Content Alignment to the Common Core State Standards for Mathematics Lucions are a available for review

Grade 8

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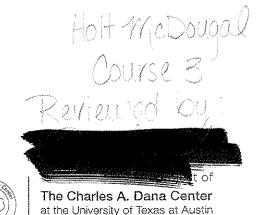
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Instructional Materials Analysis and Selection

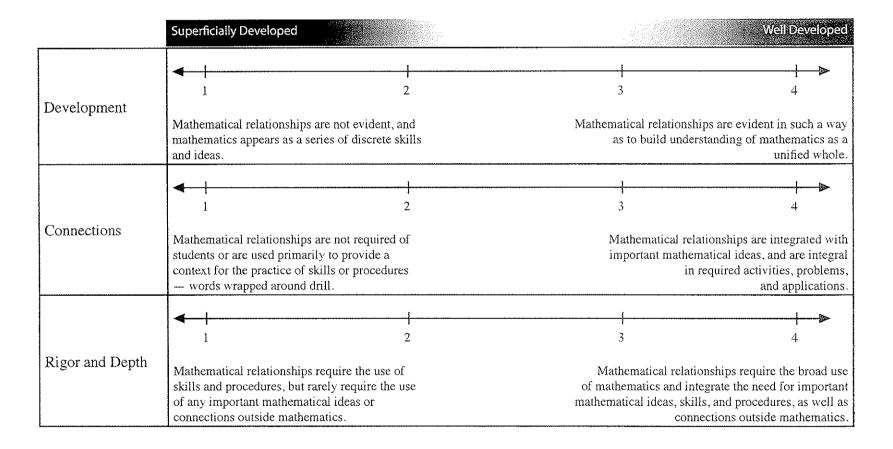
Phase 3:

Assessing Content Alignment to the Common Core State Standards for Mathematics

A project of
The Indiana Education Roundtable, The Indiana Department of Education,
and
The Charles A. Dana Center at The University of Texas at Austin

2010-2011

Mathematical Relationships: Understanding the scoring



Reviewed By:	
Title of Instructional Materials:	

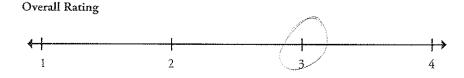
1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



Reviewed By:	
Title of Instructional Materials:	

2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

Summary/Justification/Evidence

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Overall Rating

Reviewed By:	
Title of Instructional Materials:	

3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Indicate the chapter(s), section(s), or page(s) reviewed.

Summary/Justification/Evidence

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Very little discussion or arguments

Overall Rating

Reviewed By:	
Title of Instructional Materials:	

4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Bood with earthday out tooks

Overall Rating



Reviewed By:	
Title of Instructional Materials:	

5. Use appropriate tools strategically.

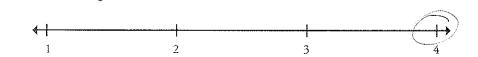
Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Overall Rating

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



Reviewed By:	
Title of Instructional Materials:	

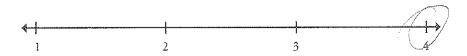
6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



The Charles A. Dana Center

Overall Rating

Reviewed By:	
Title of Instructional Materials:	

7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.

Overall Rating

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



Reviewed By:	
Title of Instructional Materials:	

8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation (y-2)/(x-1)=3. Noticing the regularity in the way terms cancel when expanding (x-1)(x+1), $(x-1)(x^2+x+1)$, and $(x-1)(x^3+x^2+x+1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), section(s), or page(s) reviewed.

Summary/Justification/Evidence

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Overall Rating



Missing some convertions between

Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - THE NUMBER SYSTEM - 8.NS

Know that there are numbers that are not rational, and approximate them by rational numbers.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
8.NS.1 Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	Important Mathematical Ideas	1	2	3	→ 4
	Skills and Procedures	1	2	3	 +→ 4
	Mathematical Relationships	4 1	2	3	 → 4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
desson 2-1	Portions of the domain, cludeveloped in the instruction Too much vo Tyvational Overall Rating	nal materi	als (if any):	_	ot well

Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - THE NUMBER SYSTEM - 8.NS

Know that there are numbers that are not rational, and approximate them by rational numbers.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.					
8.NS.2	Important Mathematical Ideas	ــــــــــــــــــــــــــــــــــــــ				
Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between		1	2	3	a AAA	
1.4 and 1.5, and explain how to continue on to get better approximations.	Skills and Procedures	4				
		1	2	3	4	
					a contraction	
	Mathematical Relationships	1	2	3	4	
In digrate the shantaw(a) continued and/or nago(s) reviewed	Summary / Justification / E	vidence			· · · · · · · · · · · · · · · · · · ·	
Indicate the chapter(s), section(s), and/or page(s) reviewed.						
Lesson 4-7	Portions of the domain, clu developed in the instruction	nal materi	ials (if anv):			
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	Overall Rating	((1)	3	 >	

Reviewed By:	
Title of Instructional Materials:	

Work with radicals and integer exponents.	Summary and documentati met. Cite examples from th	ion of hove	w the domain, clu	ster, and stand	dard are
8.EE.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$.	Important Mathematical Ideas		2	3	 →
	Skills and Procedures	4 	2		
	Mathematical Relationships		 2	3	
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Lessons 4-1, 4-2, 4-3	Portions of the domain, cludeveloped in the instruction was warp.	nal mater	ials (if anv):		
	Overall Rating	4 		3	- → 4

Reviewed By:	
Title of Instructional Materials:	

Work with radicals and integer exponents.	Summary and documentation met. Cite examples from the			ter, and stand	lard are
8.EE.2 Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate	Important Mathematical Ideas	1		3	 -> 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Skills and Procedures	∢ 1		3	
	Mathematical Relationships	∢-} 1		3	
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	Portions of the domain, cludeveloped in the instruction of the domain of the instruction of the domain of the instruction of the domain of the instruction of the	nal materia	ıls (if any):		ot well
	Overall Rating	1	1 2	3	

Re	eviewed By:	
Tit	tle of Instructional Materials:	

Work with radicals and integer exponents.	Summary and documentation met. Cite examples from the	on of how e material	the domain, clu	ster, and stane	dard are
8.EE.3 Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the	Important Mathematical Ideas	4 1	2	3	
population of the United States as 3 × 10 ⁸ and the population of the world as 7 × 10 ⁹ , and determine that the world population is more than 20 times larger.	Skills and Procedures	1	2	3	 }
	Mathematical Relationships	4 1	2	3	
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
19504 4-4	Portions of the domain, clus developed in the instruction	ster, and s	als (if any):	missing or no	
	Overall Rating	1	1 2	3	→ 4

Reviewed By:	
Title of Instructional Materials:	

Work with radicals and integer exponents.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
8.EE.4	Important Mathematical Ideas		t	,	f 6
Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for	Important Mathematica rueas	1	2	3	4
of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by	Skills and Procedures		1	ı	, ,
technology.	Okino dira i roccuares	1	2	3	4
	Mathematical Relationships				
		1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	1219 900				
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	Overall Rating	_			
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Reviewed By:	
Title of Instructional Materials:	

Understand the connections between proportional relationships, lines, and linear equations.	Summary and documentation of how the domain, cluster, and standard armet. Cite examples from the materials.					ırd are
8.EE.5						
Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.	Important Mathematical Ideas	1	2		3	4
	Skills and Procedures	1	2		3	4
	Mathematical Relationships	4 1	1 2		3	
	Summary / Justification / E	videnc	e			
Indicate the chapter(s), section(s), and/or page(s) reviewed.						
Hospins 12-2, 12-5	Portions of the domain, clu developed in the instruction				ng or not	well
	Overall Pating					
	Overall Rating	1	2		· · · · · · · · · · · · · · · · · · ·	

Reviewed By:

Title of Instructional Materials:

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Understand the connections between proportional relationships, lines, and linear equations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
8.EE.6	Important Mathematical Ideas	4-1			 >
Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b .		1	2	3	4
, 0	Skills and Procedures	\			
		1	2	3	4
	Mathematical Relationships	« -			
		1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Alssors 12-29-12-3	Portions of the domain, cludeveloped in the instruction	nal materials	(if anv):		
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ex. on p. 637	The state of the s				
	Overall Rating	 	$\overline{+}$		
		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Analyze and solve linear equations and pairs of simultaneous linear equations.	Summary and documentation met. Cite examples from the		he domain, clus	ster, and stand	dard are
8.EE.7a7. Solve linear equations in one variable.	Important Mathematical Ideas	4-			
 a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form x = a, a = a, or a = b results (where a and b are different numbers). 	Claille and Drandhuse	Ī	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ex SOME EVIDER Portions of the domain, clus developed in the instruction	11-3 ster, and st	andard that are		····
	Overall Rating) - 1 3	

Reviewed By:	
Title of Instructional Materials	÷

Summary and documentation of how the domain, cluster, and standard are Analyze and solve linear equations and pairs of simultaneous linear met. Cite examples from the materials. equations. 8.EE.7b Important Mathematical Ideas 7. Solve linear equations in one variable. b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms. Skills and Procedures Mathematical Relationships Summary / Justification / Evidence Indicate the chapter(s), section(s), and/or page(s) reviewed. Portions of the domain, cluster, and standard that are missing or not well Losson: 11-3411-3 developed in the instructional materials (if any): Overall Rating

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Reviewed By:	
Title of Instructional Materials:	

Analyze and solve linear equations and pairs of simultaneous linear equations.	Summary and documentati met. Cite examples from th		ne domain, clus	ster, and stand	dard are
8.EE.8a					
8. Analyze and solve pairs of simultaneous linear equations.	Important Mathematical Ideas	+			 ->
 Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously. 		1	2	3	4
	Skills and Procedures	 			
		1	2	3	4
	Mathematical Relationships	(
		1	2	3	4
	Summary / Justification / E Good illustra p. 664	vidence Hov	at both	m L	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	p. 664	EX	1016 Cens	t +tho	rougi
Son 12-7	Portions of the domain, clu developed in the instruction			missing or no	ot well
	Overall Rating				
		4	2	3	

Reviewed By:	
Title of Instructional Materials:	

Analyze and solve linear equations and pairs of simultaneous linear equations.	Summary and documentation met. Cite examples from the			ister, and stanc	lard are
8.EE.8b	1				1.
8. Analyze and solve pairs of simultaneous linear equations.	Important Mathematical Ideas	 		2	
b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, $3x + 2y = 5$ and $3x + 2y = 6$ have	Skills and Procedures	. 1	2	3	4
no solution because $3x + 2y$ cannot simultaneously be 5 and 6.		4]	2	2	
		1	2	3	4
	Mathematical Relationships	4 			
		1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction	nal material	ls (if any):	-	
Clesson 1-4	Graphing a	a.Vajil	croic s	dution. more	
	1 Daltox	a Ma	The Administration of the American	mone	
	Overall Rating	(<u> </u>	
		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Analyze and solve linear equations and pairs of simultaneous linear equations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
8. EE.8c 8. Analyze and solve pairs of simultaneous linear equations. c. Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair. Indicate the chapter(s), section(s), and/or page(s) reviewed.	Important Mathematical Ideas Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	
	Summary / Justification / Experiments of the domain, cludeveloped in the instruction	ster, and sta	andard that are	,	
	Overall Rating	4 1	2		}

Reviewed By:	
Title of Instructional Materials:	

Define, evaluate, and compare functions.	Summary and documentati met. Cite examples from the		omain, cluster	; and standa	rd are
8.F.1	Important Mathematical Ideas	<u>a .l</u>			
Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.	,	1	2	3	4
	Skills and Procedures	4			
		1	2	3	4
	Mathematical Relationships	< 			
		1	2	3	4
		vidence			, ,
1 Function notation is not required in Grade 8. Indicate the chapter(s), section(s), and/or page(s) reviewed.	600d use of	multiple	12012	UNA	10%
Jeson 3-4	Portions of the domain, clu developed in the instructio			ssing or not	well
					- marine
	Overall Rating	1	2	3	4

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Title of Instructional Materials:	

			ster, and sta	ndard are
Important Mathematical Ideas	1	2	3	
Skills and Procedures	1	2	3	 → 4
Mathematical Relationships	1	2		4
Summary / Justification / Ev	vidence			
developed in the instruction	ster, and nal mater	standard that are	e missing or i	not well
s not availak	ole	,		
Overall Rating	(
Printer and the second and the secon	met. Cite examples from the Important Mathematical Ideas Skills and Procedures Mathematical Relationships Summary / Justification / Examples Portions of the domain, cludeveloped in the instruction Our and	met. Cite examples from the materia Important Mathematical Ideas I Skills and Procedures I Mathematical Relationships I Summary / Justification / Evidence Portions of the domain, cluster, and developed in the instructional mater	met. Cite examples from the materials. Important Mathematical Ideas 1 2 Skills and Procedures 1 2 Mathematical Relationships 1 2 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are developed in the instructional materials (if any):	Important Mathematical Ideas 1 2 3 Skills and Procedures 1 2 3 Mathematical Relationships 1 2 3 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are missing or ideveloped in the instructional materials (if any):

The Charles A. Dana Center

28

Reviewed By:	
Title of Instructional Materials.	

		ie domain, ciu:	ster, and stan	ard are
Important Mathematical Ideas	1		$\langle \alpha \rangle / \langle \beta \rangle$	4
Skills and Procedures	V <i>UV</i> ←		3	/(1 <i>()</i> () 4
Mathematical Relationships	∢- 1	2	3	 ->
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Portions of the domain, cluded developed in the instruction	ster, and standard	indard that are (if any):	missing or n	ot well
Overall Rating				
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Reviewed By:	
Title of Instructional Materials:	

Summary and documentation of how the domain, cluster, and standard are Use functions to model relationships between quantities. met. Cite examples from the materials. 8.F.4 Important Mathematical Ideas Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph Skills and Procedures or a table of values Mathematical Relationships Summary / Justification / Evidence 12-1 is really good Indicate the chapter(s), section(s), and/or page(s) reviewed. Lesson 3-5 (introduced)
Lesson 12-1, 12-2 Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating

Reviewed By:	
Title of Instructional Materials:	

Use functions to model relationships between quantities.	Summary and documentation met. Cite examples from the			ster, and stand	ard are
8.F.5 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a	Important Mathematical Ideas	1	2	3	4
function that has been described verbally.	Skills and Procedures	1	2	3	
	Mathematical Relationships	1	2	3	 - >
	Summary / Justification / Ev	ridence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
desson 2-1, 12-2, 12-5 CC # 7 Vary good	Portions of the domain, clus developed in the instruction	nal material	ls (if any):		t well
	Overall Rating	1	2	1)	4

Reviewed By:	

Title of Instructional Materials:

MATHEMATICS: GRADE 8 - GEOMETRY - 8.G

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation met. Cite examples from the			ster, and stand	dard are
8.G.1a 1. Verify experimentally the properties of rotations, reflections, and translations:	Important Mathematical Ideas	4 1	2	1 3	
a. Lines are taken to lines, and line segments to line segments of the same length.	Skills and Procedures	1	2	3	
	Mathematical Relationships	4 1	2	3	
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Jesson 7-7	Portions of the domain, cludeveloped in the instruction			missing or no	ot well
	Overall Rating	1	2	3	

Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - GEOMETRY - 8.G

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
8.G.1b1. Verify experimentally the properties of rotations, reflections, and translations:	Important Mathematical Ideas	4 	2	3	
b. Angles are taken to angles of the same measure.					
	Skills and Procedures	1	2	3	
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
70500 7-7	Portions of the domain, cludeveloped in the instruction	nal material	s (if any):	wake e	ot well
	Overall Rating	1	2	3	4

Reviewed By:	

Title of Instructional Materials:

MATHEMATICS: GRADE 8 - GEOMETRY - 8.G

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.					
8.G.1c	Important Mathematical Ideas			_		
 Verify experimentally the properties of rotations, reflections, and translations: 	important mathematical sueas	1	2	3	4	
c. Parallel lines are taken to parallel lines.						
	Skills and Procedures	 				
		1	2	3	4	
	Mathematical Relationships	 		-	→	
		1	2	3	4	
	Summary / Justification / Evidence					
Indicate the chapter(s), section(s), and/or page(s) reviewed.						
Alsson 7-7	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):					
	Not add,1255 Let studisks		as Hai 1014	stactions		
	Overall Rating	(3		

Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - GEOMETRY - 8.G

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.					
8.G.2	Important Mathematical Ideas	4-1				
Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflection and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.		1	2	3	4	
	Skills and Procedures	« -				
		1	2	3	4	
	Mathematical Relationships	 				
		1	2	3	4	
	Summary / Justification / Evidence					
Indicate the chapter(s), section(s), and/or page(s) reviewed.						
QC#6 + 10=7	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):					
Lesson 7-7	Sood by Ander a Agriculture					
	Overall Rating	 	1 2	4		

Reviewed By:	
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
8.G.3					
Describe the effect of dilations, translations, rotations, and reflections on two- dimensional figures using coordinates.	Important Mathematical Ideas	I	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Lesson 7-7	Portions of the domain, clus developed in the instruction	nal materials	s (if any):	_	
* Rules are on p. 364-365	Good practice	US D L YLA	Laraph Luod	dexar	nple:
	Overall Rating		2	1	4

The Charles A. Dana Center

36

Reviewed By:	
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				
8.G.4	Important Mathematical Ideas	. 1	ī	1	1.5
Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
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		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				lard are
8.G.5					
Use informal arguments to establish facts about the angle sum and exterior	Important Mathematical Ideas	4 			
angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. For example, arrange three copies of the same triangle so that the sum of		I	2	3	4
the three angles appears to form a line, and give an argument in terms of transversals why this is so.	Skills and Procedures	 			
thanovorcalo mily time to do.		1	2	3	4
	Mathematical Relationships	4 1	1	1	? 1
		1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
Hesson 7-2 4 7-3					
	Missed opp		Hies Ac	19110	
	120 V	XM H		₹*	
	Overall Rating	 	1		

Reviewed By:	
Title of Instructional Materials:	

Understand and apply the Pythagorean Theorem.	Summary and documentation of how the domain, cluster, and standard as met. Cite examples from the materials.				
8.G.6 Explain a proof of the Pythagorean Theorem and its converse.	Important Mathematical Ideas	∢-	2	3	4
	Skills and Procedures	← 	2	3	 -> 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships	♦ 	2	3	
	Summary / Justification / E		Pythag	01.90 M	
D. 199 Sessons-4-8+4-9	Portions of the domain, clu developed in the instructio			missing or no	it well
CCH3 good shock of	Overall Rating	4 	2	3	1

Reviewed By:	
Title of Instructional Materials	3:

Understand and apply the Pythagorean Theorem.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.						
8.G.7							
Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.	Important Mathematical Ideas	1	2	3	4		
	Skills and Procedures	 	2		 		
		i	2	3	4		
	Mathematical Relationships	4 1	2	3	4		
	Summary / Justification / E	vidence					
Indicate the chapter(s), section(s), and/or page(s) reviewed.							
Hesson 4-8	Portions of the domain, cludeveloped in the instruction	nal materia	tandard that are	e missing or n	ot well		
	U						
	Overall Rating	1	2	3	4		

Reviewed By:	
Title of Instructional Materials:	

Understand and apply the Pythagorean Theorem.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.					
8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	Important Mathematical Ideas	1	2	3	 }	
	Skills and Procedures	4 [2	3		
	Mathematical Relationships	♦ ∤	2	3		
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence Order Portions of the domain, cluster, and standard that are missing or not well					
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Title of Instructional Materials:	

			ster, and stan	dard are
Important Mathematical Ideas	 		1	
	1	2	3	4
Skills and Procedures	4			
	1	2	3	4
Mathematical Relationships	4-1			
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Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - STATISTICS AND PROBABILITY - 8.SP

Investigate patterns of association in bivariate data.	Summary and documentation met. Cite examples from the			ster, and stand	lard are
8.SP.1 Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear	Important Mathematical Ideas	1	2	3	4
association, and nonlinear association.	Skills and Procedures	1	2	3	
	Mathematical Relationships	< } 1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					Turninalisate and the second of the second o
Asson 9-9	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):		00 r 7		
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	Overall Rating	(1	2	_3	4

Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - STATISTICS AND PROBABILITY - 8.SP

Investigate patterns of association in bivariate data.	Summary and documentati met. Cite examples from the	on of how t e materials.	he domain, clu	ster, and stand	dard are
8.SP.2					
Know that straight lines are widely used to model relationships between two	Important Mathematical Ideas	4-			
quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.		1	2	3	4
	Skills and Procedures	 			
		1	2	3	4
	Mathematical Relationships	4-1	l.	ţ.	
		1	2	3	4
	Summary / Justification / E	vidence			
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Instructional Materials Analysis and Selection

Phase 3: Assessing Content Alignment to the Common Core State Standards for Mathematics

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Instructional Materials Analysis and Selection

Assessing Content Alignment to the Common Core State Standards for Mathematics

The Indiana Education Roundtable, The Indiana Department of Education,

The Charles A. Dana Center at The University of Texas at Austin

2010-2011

Instructional Materials Analysis and Selection Assessing Content Alignment to the Common Core State Standards for Mathematics

This tool provides educators with a structured way to make informed decisions when selecting mathematics instructional materials. In particular, it can help you become more knowledgeable about the Common Core State Standards for Mathematics so you can select instructional materials aligned with these standards.

This resource can also be used with the Dana Center's larger 4-phase Instructional Materials Analysis and Selection toolset: Phase 1: Studying the Standards, Phase 2: Narrowing the Field of Instructional Materials, Phase 3: Assessing Subject-Area Content Alignment, and Phase 4: Assessing Vertical Alignment of Instructional Materials. The particular resource you hold is a phase 3 tool that has been customized for assessing the alignment of instructional materials with the Common Core State Standards for Mathematics. Note that in 2009, the Dana Center developed a similar tool for Indiana educators to use in analyzing the alignment of instructional materials to Indiana's Academic Standards for Mathematics.

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Charles A. Dana Center The University of Texas at Austin 1616 Guadalupe Street, Suite 3.206 Fax: 512-232-1855 dana-txshop@utlists.utexas.edu

www.utdanacenter.org

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Per the Terms of Use, we include this notice, which applies to the Common Core State Standards in this document: © Copyright 2010. National Governors Association Center for Best Practices and Council of Chief State School Officers. All rights reserved.

This tool, Instructional Materials Analysis and Selection: Assessing Content Alignment to the Common Core State Standards for Mathematics, draws on the Dana Center's nearly 20 years of experience in strengthening education and has been used extensively in Texas and, increasingly, other states, to help local school districts and schools select instructional materials aligned with their standards. Development and production of the Instructional Materials Analysis toolset

This resource consists of a set of 15 individual grade-level / course documents that span kindergarten through the third year of high school mathematics. There is a document for each grade from kindergarten through 8, and six documents for high school mathematics (one each for the three courses in the traditional high school pathway Algebra I, Geometry, Algebra II; and one each for the three courses in the integrated high school pathway Mathematics I, Mathematics II, and Mathematics III).* At the request of various states and other entities, the Dana Center has populated this Instructional Materials Analysis and Selection tool with standards from the Common Core State Standards for Mathematics for use by local districts in selecting instructional materials aligned with these standards.

Note that the copyright of the Common Core State Standards for Mathematics is held by the National Governors Association Center for Best Practices and the Council of Chief State School Officers (collectively, NGA Center/CCSSO). This use of the CCSS for Mathematics is done under the CCSS Terms of Use, available at www.corestandards.org/terms-of-use. Specifically, this work is done under the Terms of Use "non-exclusive, royalty-free license to copy, publish, distribute, and display the Common Core State Standards for non-commercial purposes that support the Common Core State Standards Initiative." For a complete copy of the Common Core State Standards for Mathematics as well as the CCSS for Mathematics, Appendix A: Designing high school mathematics courses based on the Common Core State Standards, go to www.corestandards.org/the-standards.

We welcome your comments and suggestions for improvements—please send to dana-txshop@utlists.utexas.edu or the address in the copyright section above.

About the Charles A. Dana Center at The University of Texas at Austin

The Dana Center works to raise student achievement in K-16 mathematics and science, especially for historically underserved populations. We do so by providing direct service to school districts and institutions of higher education; to local, state, and national education leaders; and to agencies, nonprofits, and professional organizations concerned with strengthening American education.

The Center was founded in 1991 at The University of Texas at Austin. We carry out our work by supporting high standards and building system capacity; collaborating with key state and national organizations to address emerging issues; creating and delivering professional supports for educators and education leaders; and writing and publishing education resources, including student supports. Our staff of more than 60 has worked with dozens of school systems in nearly 20 states and with 90 percent of Texas's more than 1,000 school districts. We are committed to ensuring that the accident of where a child attends school does not limit the academic opportunities he or she can pursue.

For more information about our programs and resources, see our homepage at www.utdanacenter.org. To access our resources (many of them free), see our products index at www.utdanacenter.org/products. And to learn more about our professional development—and sign up online—go to www.utdanacenter.org/pd.

^{*} For the high school course sequences, we relied on the Common Core State Standards Mathematics Appendix A: Designing High School Mathematics Courses Based on the Common Core State Standards, developed for the CCSS initiative by Achieve, Inc., which convened and managed the Achieve Pathways Group.

Acknowledgments

Unless otherwise noted, all staff listed here are affiliated with the Dana Center.

Project director

Laurie Garland, director of program and product development Sam Zigrossi, senior advisor

Developers and facilitators

Patti Bridwell, senior program coordinator for leadership Laurie Garland, director of program and product development Tom McVey, professional development team lead Sam Zigrossi, senior advisor

Our thanks

We gratefully acknowledge the more than 100 school districts and thousands of educators who have informed the development of these resources.

Editorial and production staff

Cara Hopkins, proofreader
Rachel Jenkins, consulting editor
Tom McVey, professional development team lead
and print production manager
Phil Swann, senior designer

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Documenting Alignment to the CCSS for Mathematics: Standards for Mathematical Practice6
Documenting Alignment to the CCSS for Mathematics: Standards for Mathematical Content

Introduction

Studying the Standards Phase 1:

Narrowing the Field of Instructional Materials Phase 2:

Assessing Mathematical Content Alignment Phase 3:

The purpose of Phase 3: Assessing Mathematical Content Alignment is to determine the degree to which the materials are aligned to the standards (content and processes). In Phase 3, participants conduct an in-depth review of the 2-3 instructional materials selected in Phase 2. The Phase 3 process requires selection committee members to use set criteria in order to determine a rating for each sample, to cite examples to justify their score for each sample, and to document standards that are missing or not well-developed in the instructional materials examined.

Implementation

As a whole group, selection committee members should practice applying the Phase 3 rubric. The purpose of the whole group practice is to promote inter-rater reliability and calibration.

In Phase 3 it is not important to analyze every page, section, or chapter of a resource. It is important to identify an area, topic, or big idea for the deep content analysis of Phase 3 (e.g. development of equivalent fractions, addition of whole numbers, development of proportionality...). The identified area, topic, or big idea will be used for all the instructional materials considered in Phase 3. The area, topic, or big idea can be identified through the use of student achievement data, curriculum priorities/challenges, or ideas that typically make up a greater portion of instruction in particular grade levels/courses. In most cases, Phase 3 will identify the one resource that is best aligned.

Step-by-Step Instructions

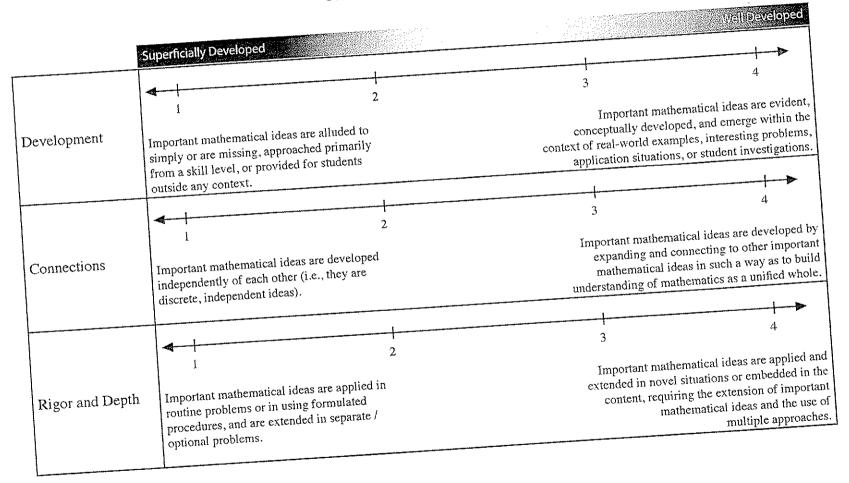
- Use your current adoption to practice using the Phase 3 rubric. Select one big idea to focus your analysis (see note above for selecting the area, topic, or big idea).
- Independently, committee members use their current resource, the identified big idea (and associated pages in that resource), and the Phase 3 rubric to score and document the extent to which the material (content and processes) aligns to the standards. 2.
- In small groups, committee members share their scoring and justifications. Small groups come to consensus on how the current resource 3. would score on this big idea.
- Each small group shares with the large group their score. Repeat the consensus building to generate a large group score on this big idea. 4.
- Clarify any misunderstandings about how to apply the rubric before committee members begin to use Phase 3 rubric on the selected 5. materials.

- Based on the size of the selection committee, determine the number of areas, topics, or big ideas to be examined for each grade/course. If the group size is large, more areas, topics, big ideas can be examined within each grade level/course. 6.
- Make sure committee members have multiple copies of the Phase 3 rubric. 7.
- Committee members apply the Phase 3 rubric for each of the materials. 8.
- Establish a time line for groups to complete and submit Phase 3 documentation. 9.
- Establish a data collection and analysis process to attain a rating for each resource. 10.

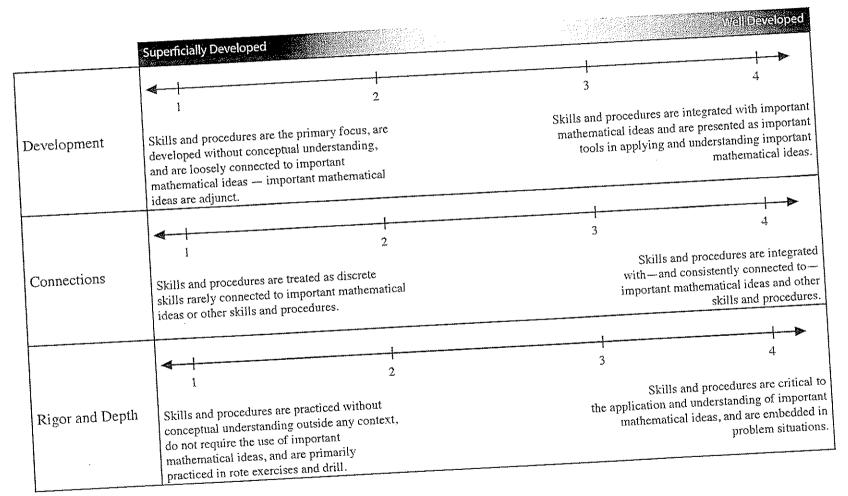
- Phase 3: Assessing Mathematical Content Alignment black line master multiple copies per person Materials and Supplies
- Currently used instructional resource
- The 2 to 4 instructional materials selected in Phase 2

Assessing Vertical Alignment of Instructional Materials Phase 4:

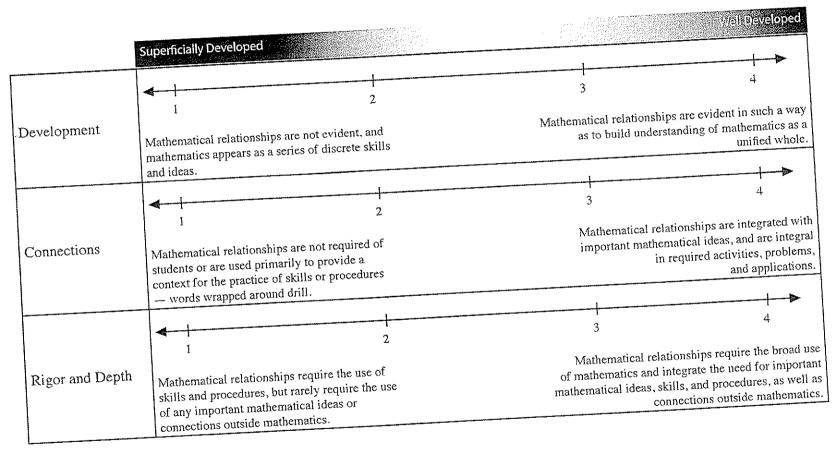
Important Mathematical Ideas: Understanding the scoring



Skills and Procedures: Understanding the scoring



Mathematical Relationships: Understanding the scoring



Reviewed By:	
Title of Instructional Materials:	

1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating 3 2

Reviewed By:	
Title of Instructional Materials:	

2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



Reviewed By:	
Title of Instructional Materials:	

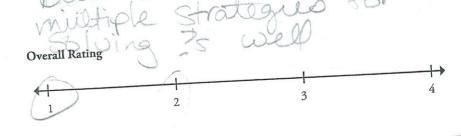
3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Indicate the chapter(s), section(s), or page(s) reviewed.

Summary/Justification/Evidence

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	

4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating 2

Reviewed By:	
Title of Instructional Materials:	

5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By:	
Title of Instructional Materials:	

6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

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Title of Instructional Materials:	

7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By:	
Title of Instructional Materials:	

8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1,2) with slope 3, middle school students might abstract the equation (y-2)/(x-1)=3. Noticing the regularity in the way terms cancel when expanding (x-1)(x+1), $(x-1)(x^2+x+1)$, and abstract the equation (y-2)/(x-1)=3. Noticing the regularity in the sum of a geometric series. As they work to solve a problem, mathematically $(x-1)(x^3+x^2+x+1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence



MATHEMATICS: GRADE 8 - THE NUMBER SYSTEM - 8.NS	Summary and documentation of how the domain, cluster, and standard are
Know that there are numbers that are not rational, and approximate	Summary and documentation of now the domain, met. Cite examples from the materials.
them by rational numbers:	Important Mathematical Ideas 1 2 3 4
Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	Skills and Procedures 1 2 3 4
	Mathematical Relationships 1 2 3 4
	Summary / Justification / Evidence The (RST Bound)
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 2 3 4

MATHEMATICS: GRADE 8 - THE NUMBER SYSTEM - 8.NS

now that there are numbers that are not rational, and appropriate	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
.NS.2	Important Mathematical Ideas 1 2 3 4
Use rational approximations of irrational mumbers to demonstrational approximations of irrational numbers, locate them approximately on a number line diagram, reational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	Skills and Procedures 1 2 3 4
	Mathematical Relationships 2 3 4
	Summary / Justification / Evidence Rest bound in 4-6
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

IATHEMATICS: GRADE 8 – EXPRESSIONS AND EQUATIONS – 8.E	Summary and documentation met. Cite examples from the	n of how the materials.	domain, clu	ster, and standa	To are	
Nork with radicals and integer exponents.						
S.EE.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$.	Important Mathematical Ideas	1	2	3	4	
numerical expressioners	Skills and Procedures	1	2	3	4	
	Mathematical Relationships	← 1	2	3	 → 4	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Portions of the domain, of developed in the instruction	Juster and S	tandard that als (if any):	are missing or r	not well	
	Overall Rating	1	2	3	4	

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Reviewed By:

Title of Instructional Materials:

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Work with radicals and integer exponents.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

8.EE.2

Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.

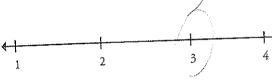
Important Mathematical Ideas



Skills and Procedures



Mathematical Relationships



Summary / Justification / Evidence

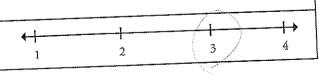
Found

Indicate the chapter(s), section(s), and/or page(s) reviewed.

4-5, 4-6, 4-6 HOLDB, 4-6 Tech LOC

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Vork with radicals and integer exponents.	Summary and documentation met. Cite examples from the	n of how the domain, cluster materials.	and standard are			
3.EE.3 Use numbers expressed in the form of a single digit times an integer power	Important Mathematical Ideas	1 2	3 4			
Use numbers expressed in the form of a single digital transformation of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the copulation of the United States as 3×10^8 and the population of the world as 7×10^9 , and determine that the world population is more than 20 times larger.	Skills and Procedures	1 2	3 4			
	Mathematical Relationships	1 2	3 4			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence					
4-4,4-4A	Portions of the domain, cl developed in the instruction	uster, and standard that are n onal materials (if any):	issing or not well			
	Aggregate and service and	and the same of th				
	Overall Rating	1 2	3 4			

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Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Work with radicals and integer exponents.	Summary and documentation met. Cite examples from the	e materials		.,	<u></u>
8.EE.4 Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	< 1	2	3	 →
	Mathematical Relationships	← 1	2	3	_ {1
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / I	Evidence			
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	Portions of the domain, c developed in the instructi	luster, and ional mate	standard that are rials (if any):	missing or r	ot well
	Overall Rating		1 2	3	4

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Summary and documentation of how the domain, cluster, and standard are Understand the connections between proportional relationships, lines, met. Cite examples from the materials. and linear equations. Important Mathematical Ideas 8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distancetime equation to determine which of two moving objects has greater speed. Skills and Procedures Mathematical Relationships Summary / Justification / Evidence Indicate the chapter(s), section(s), and/or page(s) reviewed. Portions of the domain, cluster, and standard that are missing or not well 12-2,13-4A developed in the instructional materials (if any):

Overall Rating

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Reviewed By:

Title of Instructional Materials:

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Understand the connections between proportional relationships, lines, and linear equations.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

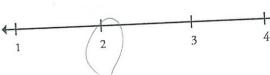
8.EE.6

Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation y = mx for a line through the origin and the equation y = mx + b for a line intercepting the vertical axis at b.

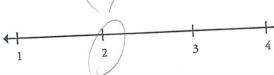
Important Mathematical Ideas



Skills and Procedures



Mathematical Relationships



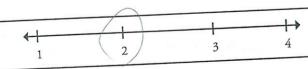
Summary / Justification / Evidence

Indicate the chapter(s), section(s), and/or page(s) reviewed.

12-2A Holab, 12-2, 12-3

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



Title of Instructional Materials:

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

nalyze and solve linear equations and pairs of simultaneous linear	Summary and documentation met. Cite examples from the	materials.	domain, cius	riei, and Jean	
quations. .EE.7a	Important Mathematical Ideas	(1 3	 →
7. Solve linear equations in one variable.		1	4		
 a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form x = a, a = a, or a = b results (where a and b are different numbers). 	Skills and Procedures	1	2	3	 → 4
	Mathematical Relationships	1	2	$\frac{1}{3}$	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence				
	Portions of the domain, cl developed in the instructi	luster, and st	andard that a s (if any):	are missing or no	ot well
	-				
	Overall Rating	\		1 3	4

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

analyze and solve linear equations and pairs of simultaneous linear	Summary and documentatio met. Cite examples from the	materials.	domain, cius	Tion, and Comme	
equations.	Important Mathematical Ideas				4
out a linear aguations in one variable.		1	2	3	7
 b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms. 	Skills and Procedures	{ 	2		 ->
	Mathematical Relationships	1	2	3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence				
	Portions of the domain, c developed in the instructi	luster, and st onal materia	andard that a	ire missing or no	t well
	gggernamin en en en	themselve,			
	Overall Rating	 	1 2	1 3	4

ATHEMATICS: GRADE 8 – EXPRESSIONS AND EQUATIONS – 8.EE	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.					
nalyze and solve linear equations and pairs of simultaneous linear	met. Cite examples nom ex-	<u> </u>		4		
a. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.	Important Mathematical Ideas	1	2	3	4	
	Skills and Procedures	1	2	1 3		
	Mathematical Relationships	1	2	3/	4	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / I					
	Portions of the domain, c developed in the instruct	luster, and s ional materia	tandard that Is (if any):	are missing or	not well	
	Overall Rating	(1 2	$\begin{pmatrix} 1 \\ 3 \end{pmatrix}$		

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

analyze and solve linear equations and pans of our sales	Summary and documentatio met. Cite examples from the	on of how the domain, cluster, and standard are materials.
Requations. 3.EE.8b 3. Analyze and solve pairs of simultaneous linear equations.	Important Mathematical Ideas	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.	Skills and Procedures	$\begin{pmatrix} 1 & 1 & 1 \\ 1 & 2 & 3 & 4 \end{pmatrix}$
	Mathematical Relationships	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Summary / Justification / E	Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cl developed in the instruction	uster, and standard that are missing or not well onal materials (if any):
	Overall Rating	$\begin{pmatrix} 1 & 1 & 1 \\ 2 & 3 & 4 \end{pmatrix}$

Title of Instructional Materials:

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Summary and documentation of how the domain, cluster, and standard are Analyze and solve linear equations and pairs of simultaneous linear met. Cite examples from the materials. equations. Important Mathematical Ideas 8.EE.8c 8. Analyze and solve pairs of simultaneous linear equations.

c. Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.

Skills and Procedures

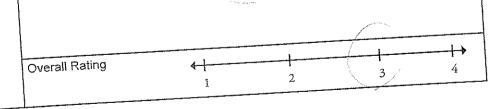
Mathematical Relationships

Summary / Justification / Evidence

Indicate the chapter(s), section(s), and/or page(s) reviewed.

11-6,12-7

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):



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Title of Instructional Materials:	

ATHEMATICS: GRADE 8 – FUNCTIONS – 8.F	Summary and documentation met. Cite examples from the	n of how the	ne domain, clus	ster, and standar	dare
Define, evaluate, and compare functions.	met. Cite examples it			4	
9.F.1 Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. 1 Function notation is not required in Grade 8. Indicate the chapter(s), section(s), and/or page(s) reviewed.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Portions of the domain, of developed in the instruction	luctor and	standard that rials (if any):	are missing or r	not well
	Overall Rating	{ 1	1 2	1 3	4

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Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - FUNCTIONS - 8.F

Define, evaluate, and compare functions.	Summary and documentation met. Cite examples from the	n of how the materials.	domaili, ciu	ster, and started	
8.F.2 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	4 1	2	1 3	 ≯ 4
	Mathematical Relationships	1	2	3	
	Summary / Justification / 1	Evidence	A.		
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, c developed in the instruct	luster, and si ional materia	tandard that ls (if any):	are missing or r	ot well
		man or an arrangement of the second			
	Overall Rating	4			 →

MATHEMATICS: GRADE 8 - FUNCTIONS - 8.F

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials. Define, evaluate, and compare functions. Important Mathematical Ideas 8.F.3 Interpret the equation y = mx + b as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points (1,1), (2,4) and (3,9), Skills and Procedures which are not on a straight line. Mathematical Relationships Summary / Justification / Evidence Indicate the chapter(s), section(s), and/or page(s) reviewed. Portions of the domain, cluster, and standard that are missing or not well 12-3 Tech lab, 12-4 developed in the instructional materials (if any): Overall Rating

Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - FUNCTIONS - 8.F

Use functions to model relationships between quantities.	Summary and documentation met. Cite examples from the	on of how the materials.	e domain, clu	uster, and standa	rd are
8.F.4	Important Mathematical Ideas	1	2	1 3	- → 4
Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	Skills and Procedures	1		3	 ↓→
	Mathematical Relationships	1	2	3	 -)
Indicate the chapter(s), section(s), and/or page(s) reviewed. 3-5 3-5 Tech Lob 10-3 18-4,	Summary / Justification / E	uster, and s	tandard that a	are missing or no	ot well
		, James III			
	Overall Rating	(2	3	4

Title of Instructional Materials:

MATHEMATICS: GRADE 8 - FUNCTIONS - 8.F

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials. Use functions to model relationships between quantities. Important Mathematical Ideas 8.F.5 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally. Skills and Procedures Mathematical Relationships Summary / Justification / Evidence Indicate the chapter(s), section(s), and/or page(s) reviewed. Portions of the domain, cluster, and standard that are missing or not well 3-3,3-4,3-5,3-5 Tech lab, E developed in the instructional materials (if any):

Overall Rating

Title of Instructional Materials:

nderstand congruence and similarity using physical models, ransparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
.G.1a I. Verify experimentally the properties of rotations, reflections, and	Important Mathematical Ideas 1 2 3 4
 a. Lines are taken to lines, and line segments to line segments of the same length. 	Skills and Procedures 2 3 4
	Mathematical Relationships 1 2 3 4
	Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 2 3 4

MATHEMATICS: GRADE 8 - GEOMETRY - 8.G	Summary and documentation of how the domain, cluster, and standard are
to an arruence and similarity using physical models,	Summary and documentation of how the domain, or met. Cite examples from the materials.
Understand congruence arry software. transparencies, or geometry software. 8.G.1b 1. Verify experimentally the properties of rotations, reflections, and	Important Mathematical Ideas 1 2 3 4
translations: b. Angles are taken to angles of the same measure.	Skills and Procedures 2 3 4
	Mathematical Relationships 1 2 3 4
	Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating 1 2 3 4

Reviewed By:	
Title of Instructional Materials:	

Inderstand congruence and similarity using physical models, ransparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
Verify experimentally the properties of rotations, reflections, and translations:	Important Mathematical Ideas 1 2 3 4
c. Parallel lines are taken to parallel lines.	Skills and Procedures 1 1 2 3 4
	Mathematical Relationships 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	
7-7A	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): The specific all the standard that are missing or not well developed in the instructional materials (if any): The specific all the standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 2 3 4

Title of Instructional Materials:

ATHEMATICS: GRADE 8 - GEOMETRY - 8.G	Summary and documentation of how the domain, cluster, and standard are						
Inderstand congruence and similarity using physical models,	met. Cite examples from the	3 Materialis.					
G.G.2	Important Mathematical Ideas	1	2	3	4		
nderstand that a two-dimensional figure is congruent to another a econd can be obtained from the first by a sequence of rotations, reflections and translations; given two congruent figures, describe a sequence that whibits the congruence between them.	Skills and Procedures	1	2	3			
	Mathematical Relationships	(2	3	4		
	Summary / Justification /	Evidence					
	1 6 J/2 1						
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, of developed in the instruct	luster, ar ional mat	nd standard tha erials (if any):	t are missing or r	not well		
Indicate the chapter(s), section(s), and/or page(s) revious 7-6 A HO LOD, 7-6; 7-7 7-7 A 7-7 A							
	Overall Rating		2	3	4		

Reviewed By:	
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation met. Cite examples from the			uster, and standa	ırd are
8.G.3 Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	Important Mathematical Ideas	← 1	1 2	3	4
	Skills and Procedures	∢	2	3	 → 4
	Mathematical Relationships	1		3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	vidence			
	Portions of the domain, clu developed in the instruction			re missing or not	well:
	Overall Rating	1	2	1 3	4

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Reviewed By:	
	i
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation met. Cite examples from the	on of how to materials	the domain, c ·	luster, and standa	ru are
8.G.4 Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures,	Important Mathematical Ideas	1	2	3	-
describe a sequence that exhibits the similarity between them.	Skills and Procedures	1	2	3	 -
	Mathematical Relationships	← 1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed. 5-5 Ho lob 5-5.5-6 Ho Lob, 5-6.5-6	Summary / Justification / E Portions of the domain, cl developed in the instruction	uster, and	standard that ials (if any):	are missing or no	ot well
	Overall Rating	1	1 2	1 3 /	4

Reviewed By:	
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation met. Cite examples from the	on of how the materials.	he domain, c	luster, and standa	ard are
Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by	Important Mathematical Ideas	1	2	3	 → 4
transversal, and the angle unigh that the sum of kample, arrange three copies of the same triangle so that the sum of the ethree angles appears to form a line, and give an argument in terms of ansversals why this is so.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	← 1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	uster, and s	standard that als (if any):	are missing or n	ot well
	Overall Rating	∢ 1	1 2	3	— → 4

Reviewed By:	
Title of Instructional Materials:	

Inderstand and apply the Pythagorean Theorem.	Summary and documentation met. Cite examples from the	n of how the materials.	domain, clus	ster, and startes	
8.G.6 Explain a proof of the Pythagorean Theorem and its converse.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	∢ 1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships	1	 2	3	4
	Portions of the domain, c developed in the instructi	lueter and S	tandard that a Is (if any):	are missing or no	ot well
	Overall Rating	{ 1	2	3	4

Title of Instructional Materials:

Inderstand and apply the Pythagorean Theorem.	Summary and documentation met. Cite examples from the	n of how the materials.	e domain, ciu	stor, and other	
3.G.7 Apply the Pythagorean Theorem to determine unknown side lengths in real-world and mathematical problems in two and three dimensions.	Important Mathematical Ideas	1	2	3	 ->
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	
	Summary / Justification / I	Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, c developed in the instructi	luster, and s ional materi	standard that a	are missing or no	it well
	Overall Rating		2	3	 → 4

Reviewed By:	
Title of Instructional Materials:	

Inderstand and apply the Pythagorean Theorem.	Summary and documentation met. Cite examples from the	n of how the materials.	domain, ciu	Stell, and Standa	
8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	Important Mathematical Ideas	1	2	1 3 /	 -> 4
	Skills and Procedures	1	2	3	 → 4
	Mathematical Relationships	← 1	2	3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E		andard that a	are missing or n	ot well
	developed in the instructi	onal material	is (if any):		
	Overall Rating	←	2		4

Reviewed By:	
Title of Instructional Materials:	

Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.	Summary and documentation met. Cite examples from the	on of how the one materials.	domain, ci	uster, and standar	
R.G.9 Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	(2	3	4
	Mathematical Relationships	1	2	3	
		Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cl developed in the instruction	uster, and sta onal materials	ndard that (if any):	are missing or no	t well
	Overall Rating	1	1 2		—— 4

MATHEMATICS: GRADE 8 - STATISTICS AND PROBABILITY - 8.SP

f acceptation in hivariate data.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
SP.1 Construct and interpret scatter plots for bivariate measurement data to envestigate patterns of association between two quantities. Describe the properties of association between two quantities.	Important Mathematical Ideas 1 2 3 4
expection between two quantities. Becomes vestigate patterns of association between two quantities. Becomes atterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association.	Skills and Procedures 1 2 3 4
	Mathematical Relationships 1 2 3 4
	Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 2 3 4

Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - STATISTICS AND PROBABILITY - 8.SP

Investigate patterns of association in bivariate data.	Summary and documentation met. Cite examples from the	on of how the materials.	e domain, cil	JSTEF, AND STAILUA	<u> </u>
Know that straight lines are widely used to model relationships between two	Important Mathematical Ideas	1	2	3	4
quantifative variables. For scatter plots that buggets a model fit by judging the informally fit a straight-line, and informally assess the model fit by judging the closeness of the data points to the line.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E				
9-9,9-9A	Portions of the domain, cl developed in the instruction	uster, and s onal materia	tandard that ls (if any):	are missing or no	t well
	Overall Rating	 	2	1 3	

MATHEMATICS: GRADE 8 - STATISTICS AND PROBABILITY - 8.SP

Investigate patterns of association in bivariate data.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
8.SP.3 Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept. For example, in a linear model for a biology experiment, interpret a slope of	Important Mathematical Ideas 1 2 3 4
1.5 cm/hr as meaning that an additional hour of sunlight each day is associated with an additional 1.5 cm in mature plant height.	Skills and Procedures 1 2 3 4
	Mathematical Relationships 1 2 3 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence Rest found
9-9 Tech lab, 9-9A	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 1 2 3 4

Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - STATISTICS AND PROBABILITY - 8.SP

Investigate patterns of association in bivariate data.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
8.SP.4 Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a	Important Mathematical Ideas 1 2 3 4
two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores?	Skills and Procedures 1 2 3 4
nave a curiew also lend to have choices?	Mathematical Relationships 1 2 3 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence
9-96 54	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	Overall Rating 1 1 2 3 4

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Title of Instructional Materials:

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MATHEMATICS: GRADE 8 - THE NUMBER SYSTEM - 8.NS

Know that there are numbers that are not rational, and approximate them by rational numbers.	Summary and documentation met. Cite examples from the			uster, and stand	dard are
8.NS.1 Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	Important Mathematical Ideas	1	2		4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence でなしてら	a) (tassec)yec	12 J. France	
	Portions of the domain, clus developed in the instruction			e missing or no	ot well
	Overall Rating	← 	2	3	→ 4

Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - THE NUMBER SYSTEM - 8.NS

Know that there are numbers that are not rational, and approximate them by rational numbers.	Summary and documentation met. Cite examples from the	on of how the de	omain, clust	er, and stand	ard are
8.NS.2					
Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	1 3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships		2	 	4
	Summary / Justification / Ex		*Aqua	te poi	
	Portions of the domain, clus developed in the instruction	ster, and standa nal materials (if a	rd that are n any):	nissing or no	t well
	Overall Rating		2	3	

Reviewed By:	
Title of Instructional Materials:	

met. Cite examples from the Important Mathematical Ideas				
Important Mathematical Ideas				
	1	2	3	4
Skills and Procedures	1		3	
Mathematical Relationships	1	2		 → 4
Summary / Justification / Ex	ridence Gagara	iù y	Éxporents	,
Portions of the domain, clus developed in the instruction	ster, and sta nal materials	ndard that are (if any):	missing or not	well
Overall Rating				
	Summary / Justification / Ex	Mathematical Relationships 1 Summary / Justification / Evidence Portions of the domain, cluster, and star developed in the instructional materials	Mathematical Relationships 1 2 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are developed in the instructional materials (if any):	Mathematical Relationships 1 2 3 Summary / Justification / Evidence Portions of the domain, cluster, and standard that are missing or not developed in the instructional materials (if any): Overall Rating

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16

Reviewed By:	
Title of Instructional Materials:	

Work with radicals and integer exponents.	Summary and documentati met. Cite examples from th	on of how the	e domain, clu	ster, and standa	ard are
8.EE.2					
Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.	Important Mathematical Ideas	1	2	3	4
TOOW THAT IS IT ALLOHAI.	Skills and Procedures	1	2	— (j., —	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships	1	2	3	4
	Summary / Justification / E	vidence - Xquari	o É Xyva	u Nobe	
	Portions of the domain, clu developed in the instruction	ster, and star	ndard that are (if any):	missing or not	well
	Overall Rating				
	Overall Rating	1	2	3.	4

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Title of Instructional Materials:

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Work with radicals and integer exponents.	Summary and documentation met. Cite examples from the	on of how t	he domain, clus	ster, and stan	dard are
8.EE.3	The state of the s	materials.			
Use numbers expressed in the form of a single digit times an integer power	Important Mathematical Ideas				
of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the population of the United States as 3 × 10° and the population of the world as 7 × 10°, and determine that the world population is more than 20 times larger. Indicate the chapter(s), section(s), and/or page(s) reviewed.		1	هي ا	3	4
	Skills and Procedures	4.1	ï	,	t ,
		1	2	3	4
			V.		
	Mathematical Relationships	 			
		1	2	3 .	4
	Summary / Justification / Ev		itas 200	1	
	Portions of the domain, clus developed in the instruction	ter, and sta	indard that are i		ot well
	Overall Rating			3	

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Reviewed By:	
Title of Instructional Materials:	

Summary and documentation	on of how the	ne domain, clus	ter, and stan	dard are
	· ····································			
Important Mathematical Ideas				
	1	2	3	4
Skills and Procedures				f &
	1	2	3	4
Mathematical Relationships	. 1		·	
	1	2	3	4
Chap 4.4		lemento		
Portions of the domain, clus	ter, and sta	ndard that are	missing or n	ot well
Overall Rating	+			
	Important Mathematical Ideas Skills and Procedures Mathematical Relationships Summary / Justification / Even Andrew Portions of the domain, clus developed in the instruction	Important Mathematical Ideas Important Mathematical Ideas I Skills and Procedures I Mathematical Relationships I Summary / Justification / Evidence Coach And Portions of the domain, cluster, and standeveloped in the instructional materials	Skills and Procedures Skills and Procedures	Skills and Procedures 1 2 3 Skills and Procedures 1 2 3 Mathematical Relationships 1 2 3 Summary / Justification / Evidence Chap H. H Day Manuary Portions of the domain, cluster, and standard that are missing or no developed in the instructional materials (if any):

Reviewed By:	 	
Title of Instructional Materials:		

Understand the connections between proportional relationships, lines, and linear equations.	Summary and documentat met. Cite examples from the		domain, cluster,	and standar	rd are
8.EE.5	_		ſ		**** ***
Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / E		Drosesto,		
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Tractor 12-2 The supplements.	would be	huquind	Jo Du	x.logc
Clap 12	Portions of the domain, clu developed in the instructio			sing or not v	well &
	Overall Rating	\		<u> </u>	
		1	2	3	4

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Reviewed By:	
Title of Instructional Materials:	

Understand the connections between proportional relationships, lines, and linear equations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				ard are
8.EE.6 Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for	Important Mathematical Ideas	1	2	(i)	→ 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Evidence Mary problems ustlin to to develop these whose				
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating	1		3	4

Reviewed By:	
Title of Instructional Materials:	

Analyze and solve linear equations and pairs of simultaneous linear equations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
 8.EE.7a 7. Solve linear equations in one variable. a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form x = a, a = a, or a = b results (where a and b are different numbers). 	Important Mathematical Ideas 1 3 4				
	Skills and Procedures 1 2 3 4				
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships 1 2 3 4				
	Summary / Justification / Evidence The many problems with many bolulions The positions				
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating $\begin{array}{c cccc} \hline 1 & \hline 1 & \hline 1 & \hline 1 & \hline 2 & \hline 3 & 4 & \hline \end{array}$				

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Reviewed By:	
Title of Instructional Materials:	

Analyze and solve linear equations and pairs of simultaneous linear equations.	Summary and documentation of how the domain, cluster, and standard armet. Cite examples from the materials.				ndard are	
Solve linear equations in one variable. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like torms.	Important Mathematical Ideas	1	2	3	4	
distributive property and collecting like terms.	Skills and Procedures	1	2	l 3	→ 4	
	Mathematical Relationships	1	2	3	4	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence				
Chap II is dedicated to	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):					
	Overall Rating	1	2	3	1+	

Reviewed By:	
Title of Instructional Materials:	

Analyze and solve linear equations and pairs of simultaneous linear equations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				ndard are
8.EE.8a 8. Analyze and solve pairs of simultaneous linear equations. a. Understand that solutions to a system of two linear equations in two variables correspond to pairts of interesting of the continuous linear equations.	Important Mathematical Ideas	← l	2	3	4
two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.	Skills and Procedures	1	 2	3	1 4
	Mathematical Relationships	1	2	3	4
Indicate the chanter(e) and invited the chanter (c)	Summary / Justification / Ev	/idence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or r developed in the instructional materials (if any):				not well
	Overall Rating	1	2	3	— → 4

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Reviewed By:	
Title of Instructional Materials:	

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Analyze and solve linear equations and pairs of simultaneous linear equations.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				dard are
8.EE.8b 8. Analyze and solve pairs of simultaneous linear equations. b. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple	Important Mathematical Ideas	1	2	3	4
cases by inspection. For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.	Skills and Procedures	(1	2	3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	ridence			
Chap 11	Portions of the domain, clus developed in the instruction	ster, and sta al materials	andard that are s (if any):	missing or no	ot well
	Overall Rating	1	2	3	

Reviewed By:		
Title of Instructional Materials:		

MATHEMATICS: GRADE 8 - EXPRESSIONS AND EQUATIONS - 8.EE

Analyze and solve linear equations and pairs of simultaneous linear equations.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				ndard are
8.EE.8c					<u> </u>
8. Analyze and solve pairs of simultaneous linear equations.	Important Mathematical Ideas	+			\longrightarrow
c. Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of		prod	2	3	4
points intersects the line through the second pair.	Skills and Procedures	1	- 1 2	3	- 1→
	Mathematical Relationships				7
	watternatical Relationships	1	2	3	1 4
	Summary / Justification / Ev	/idence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Clopi	Portions of the domain, clus developed in the instruction	ster, and stand all	andard that are s (if any):	missing or r	not well
	Overall Rating	1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Define, evaluate, and compare functions.	Summary and documentation of how the domain, cluster, and stand met. Cite examples from the materials.				ndard are
8.F.1 Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.	Important Mathematical Ideas	1	2	3	1
	Skills and Procedures	1	2	3	+
	Mathematical Relationships	1	2	3	\
1 Function notation is not required in Grade 8. Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence			
Joseph 3	Portions of the domain, clus developed in the instruction	ster, and st nal material	andard that are is (if any):	missing or r	ot well
	Overall Rating		2		

Reviewed By:	 	
TC41CT _4		
Title of Instructional Materials:		

Define, evaluate, and compare functions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.			
8.F.2 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and	Important Mathematical Ideas 1 1 3 4			
a linear function represented by an algebraic expression, determine which function has the greater rate of change.	Skills and Procedures 1 2 3 4			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships 1 2 3 4			
	Summary / Justification / Evidence Float to be supplemented			
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):			
	Overall Rating 1 2 3 4			

Reviewed By:	
Title of Instructional Materials:	

Define, evaluate, and compare functions.	Summary and documentati met. Cite examples from th	ion of how t e materials.	he domain, clu	uster, and stand	lard are
8.F.3 Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points $(1,1)$, $(2,4)$ and $(3,9)$, which are not on a straight line.	Important Mathematical Ideas	1	2	1 3	→ 4
	Skills and Procedures	1	<u>l</u> 2	3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships	1	2		
	Summary / Justification / English Portions of the domain, cludes developed in the instruction	florning	andard that are	e missing or no	t well
	Overall Rating	1	2		4

Reviewed By:	
Title of Instructional Materials:	

Use functions to model relationships between quantities.	Summary and documentati met. Cite examples from the	on of how the	domain, clu	ster, and stand	ard are
8.F.4		· matorials.		<u> </u>	
Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	Important Mathematical Ideas	1	2	(l) 3)	4
	Skills and Procedures	1	2	1 3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships	 	2	1 3	4
	Summary / Justification / Ex		NAC	lemento	
	Portions of the domain, clus developed in the instruction	ster, and stand al materials (dard that are if any):	missing or not	: well
	Overall Rating	. 1	ı	<u>></u>	
		1	2	3	- → 4

Reviewed By:	
Title of Instructional Materials:	

Use functions to model relationships between quantities.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				
8.F.5					
Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	Important Mathematical Ideas	1	2	3	4
runellon that has been described verbally.	Skills and Procedures	+		- (1	
		1	2	\3	4
	Mathematical Relationships	1	2	1 3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev				
	Portions of the domain, clus developed in the instruction	ster, and sta al materials	indard that are s (if any):	e missing or not	well
	Overell Detine			<u>fin</u>	
	Overall Rating	1	2	3	4

Reviewed By:	 	
Title of Instructional Materials:		

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.			
8.G.1a1. Verify experimentally the properties of rotations, reflections, and translations:	Important Mathematical Ideas			
Lines are taken to lines, and line segments to line segments of the same length.	Skills and Procedures 1 2 3 4			
	Mathematical Relationships 1 2 3 4			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence			
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):			
	Overall Rating 1 2 3 4			

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Reviewed By:	
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentati met. Cite examples from the	on of how t	the domain, cl	uster, and stand	dard are
8.G.1b					
 Verify experimentally the properties of rotations, reflections, and translations: 	Important Mathematical Ideas	1	2	3	4
b. Angles are taken to angles of the same measure.				<u> </u>	
	Skills and Procedures				 +
Indicate the chapter(s), section(s), and/or page(s) reviewed.		1	2	3	4
	Mathematical Relationships			A	
		1	2	3	4
	Summary / Justification / Ev	vidence			
	Portions of the domain, clus developed in the instruction	ster, and stand material	andard that ar s (if any):	e missing or no	ot well
				<u> </u>	
	Overall Rating	1	2	3	4

Reviewed By:		
mt I av		
Title of Instructional Materials:	•	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				dard are	
8.G.1c	Important Mathematical Ideas	4 1	<u>, </u>			
 Verify experimentally the properties of rotations, reflections, and translations: 	anportant Mathematical Mode	1	2	3	4	
c. Parallel lines are taken to parallel lines.						
	Skills and Procedures	+				
		1	2	3	4	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships	4 1	•		1 .	
		1	2	3.	4	
	Summary / Justification / Evidence					
	Portions of the domain, clu developed in the instruction	ster, and stand standarial	andard that are s (if any):	e missing or no	ot well	
	Overall Rating	1	2		4	

The Charles A. Dana Center

Reviewed By:	
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				
8.G.2					
Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.	Important Mathematical Ideas	1	2	13	4
	Skills and Procedures	1	2	1 3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	ridence			
	Portions of the domain, clus developed in the instruction	iter, and sta al materials	ndard that are	missing or no	t well
	Overall Rating	1	2	3	

Reviewed By:	
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				
8.G.3				Ž.	
Describe the effect of dilations, translations, rotations, and reflections on two- dimensional figures using coordinates.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	1	2	1 3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships	 	2		
	Summary / Justification / Ex Usp 7 + Auppler	ridence	ap 5,6		
	Portions of the domain, clus developed in the instruction	ster, and sta	indard that are	missing or no	ot well
	Overall Rating			À	
		1	2	3	4

The Charles A. Dana Center

Reviewed By:	
Title of Instructional Materials:	

Understand congruence and similarity using physical models, transparencies, or geometry software.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
8.G.4	-				
Understand that a two-dimensional figure is similar to another if the second	Important Mathematical Ideas	- 			
can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.		1	2	3	4
	Skills and Procedures	+			
	****	1	2	3	4
		1	L	J	4
	Mathematical Relationships	4			
		1	2	3	4
	Summary / Justification / Evidence				
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating		1		
		-	1	<u> </u>	
		1	2	3	4

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